

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mullins *et al.* Art Unit : 1648
Serial No. : 10/780,507 Examiner : Bo Peng
Filed : February 17, 2004 Conf. No. : 7871
Title : ANCESTRAL AND COT VIRAL SEQUENCES, PROTEINS AND
IMMUNOGENIC COMPOSITIONS

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form.

This statement is being filed before the receipt of a first Office Action on the merits.

No fee is believed due. However, please apply any charges or credits to Deposit Account

No. 06-1050, referencing Attorney Docket No. 08987-023001.

Respectfully submitted,

Date: _____

Jan. 5, 2007

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08987-023001	Application No. 10/780,507
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Mullins et al.	
		Filing Date February 17, 2004	Group Art Unit 1648
(37 CFR §1.98(b))			

Other Documents (Include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	CA	Learn et al., "Maintaining the Integrity of Human Immunodeficiency Virus Sequence Database," <i>J. Virol.</i> 70:5720-5730 (1996)
	CB	Leitner et al., "Tempo and Mode of Nucleotide Substitutions in gag and env Gene Fragments in Human Immunodeficiency Virus Type 1 Populations with a Known Transmission History," <i>J. Virol.</i> 71(6):4761-4770 (1997)
	CC	Letvin, "Progress in the Development of an HIV-1 Vaccine," <i>Science</i> 280(5371):1875-1880 (1998)
	CD	Lole et al., "Full-Length Human Immunodeficiency Virus Type 1 Genomes from Subtype C-Infected Seroconverters in India, with Evidence of Intersubtype Recombination," <i>J. Virol.</i> 73(1):152-160 (1999)
	DA	Long et al., "HIV Type 1 Variants Transmitted to Women in Kenya Require the CCR5 Coreceptor for Entry, Regardless of the Genetic Complexity of the Infecting Virus," <i>AIDS Res. Hum. Retroviruses</i> 18:567-576 (2002)
	DB	Louwagie et al., "Genetic Diversity of the Envelope Glycoprotein from Human Immunodeficiency Virus Type 1 isolates of African Origin," <i>J. Virol.</i> 69(1):263-271 (1995)
	DC	McCutchan et al., "Envelope protein human immunodeficiency virus 1," retrieved from EBI Database Accession No. 092763 (Nov. 1, 1998)
	DD	McCutchan et al., "Diversity of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein in San Francisco Men's Health Study Participants," <i>AID Research and Human Retroviruses</i> 14(4):329-337 (1998)
	DE	Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins," <i>J. Mol. Biol.</i> 48:443-453 (1970)
	DF	Pearson et al., "Improved tools for biological sequence comparison," <i>Proc. Natl. Acad. Sci. USA</i> 85:2444-2448 (1988)
	DG	Penny et al., "Envelope glycoprotein, human Immunodeficiency virus 1," retrieved from EBI Database Accession No. Q73343 (Nov. 1, 1996)
	DH	Penny et al., "env Gene Sequences of Primary HIV Type 1 isolates of Subtypes B, C, D, E, and F Obtained from the World Health Organization Network for HIV isolation and Characterization," <i>AIDS Research and Human Retroviruses</i> , U.S. 12(8):741-747 (1996)
	DI	Posada et al., "Bioinformatics Applications Note - Model test: testing the model of DNA substitution," <i>Bioinformatics</i> 14:817-818 (1998)
	DJ	Rambaut et al., "Seq-Gen: an application for the Monte Carlo simulation of DNA sequence evolution along phylogenetic trees," <i>Comput. Appl. Biosci</i> 13:235-238 (1997)
	DK	Richman et al., "Self-incompatibility alleles from <i>Physalis</i> : Implications for historical inference from balanced genetic polymorphisms," <i>Proc. Natl. Acad. Sci. USA</i> 96(1):168-172 (1999)
	DL	Robertson et al., "Recombination in HIV-1," <i>Nature</i> 374(6518):124-126 (1995)
	DM	Robinson et al., "Simian Immunodeficiency Virus DNA Vaccine Trial in Macaques," <i>Ann. New York Acad. Sci</i> 27:209-211 (1995)
	DN	Robinson, "DNA vaccines for immunodeficiency viruses," <i>AIDS</i> 11(A):S109-S119 (1997)
	DO	Rodrigo et al., "Coalescent estimates of HIV-1 generation time in vivo," <i>Proc. Natl. Acad. Sci. USA</i> 96(5):2187-2191 (1999)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	DP	Schaal et al., "Gene genealogies and population variation in plants," <i>Proc. Natl. Acad. Sci. USA</i> 97(13):7024-7029 (2000)
	DQ	Schadt et al., "Computational Advances in Maximum Likelihood Methods for Molecular Phylogeny," <i>Genome Research</i> 8(3):222-233 (1998)
	DR	Shankarappa et al., "Consistent Viral Evolutionary Changes Associated with the Progression of Human Immunodeficiency Virus Type 1 Infection," <i>J. Virol.</i> 73(12):10489-10502 (1999)
	DS	Sherry et al., "Alu Evolution in Human Populations: Using the Coalescent to Estimate Effective Population Size," <i>Genetics</i> 147(4):1977-1982 (1997)
	DT	Slatkin, "Gene Genealogies Within Mutant Allelic Classes," <i>Genetics</i> 143(1):579-587 (1996)
	DU	Smith et al., "Human Rhinovirus Type 14: Human Immunodeficiency Virus Type 1 (HIV-1) V3 Loop Chimeras from a Combinatorial Library Induce Potent Neutralizing Antibody Responses Against HIV-1," <i>J. Virol.</i> 72(1):651-659 (1998)
	DV	Smith et al., "Comparison of Biosequences," <i>Adv. Appl. Math.</i> 2:482-489 (1981)
	DW	Smith et al., "The genetic data environment an expandable GUI for multiple sequence analysis," <i>CABIOS</i> 10:671-675 (1994)
	DX	Takehisa et al., "Human Immunodeficiency Virus Type 1 Intergroup(M/O) Recombination in Cameroon," <i>J. Virol.</i> 73(8):6810-6820 (1999)
	DY	Theodore et al., "Short Communication - Construction and Characterization of a Stable Full-Length Macrophage-Tropic HIV Type 1 Molecular Clone That Directs the Production of High Titers and Progeny Virions," <i>AIDS Res. Human Retrovir.</i> 12:191-194 (1996)
	DZ	Thompson et al., "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice," <i>Nucleic Acids Res.</i> 22:4673-4680 (1994)
	EA	Upchurch et al., "Position and degree of mismatches and the mobility of DNA heteroduplexes," <i>Nucleic Acids Res.</i> 28(12):E69 (2000)
	EB	Verma et al., "Gene Therapy - promises, problems and prospects," <i>Nature</i> 389:239-242 (1997)
	EC	Yasutomi et al., "Simian Immunodeficiency Virus-Specific Cytotoxic T-Lymphocyte Induction through DNA Vaccination of Rhesus Monkeys," <i>J. Virol.</i> 70:678-681 (1996)
	ED	Yu et al., "Phenotypic and Genotypic Characteristics of Human Immunodeficiency Virus Type 1 from Patients with AIDS in Northern Thailand," <i>J. Virol.</i> 69(8):4649-4655 (1995)
	EE	Zhu et al., "An African HIV-1 sequence from 1959 and implications for the origin of the epidemic," <i>Nature</i> 391(6667):594-597 (1998)
	EF	The AIDS Knowledge Bases - AIDS Vaccines - Internet website: http://www.hivinsite.ucsf.edu (printed Aug. 17, 1999)
	EG	The NIAID Division of AIDS, Science, Vaccine Concepts/Designs, Recombinant Viral Surface Protein Vaccines - Internet website: http://www.niaid.nih.gov (printed Aug. 16, 1999)
	EH	The NIAID Division of AIDS, General Info, Basic Information About AIDS and HIV Internet website: http://www.niaid.nih.gov (printed August 16, 1999)
	EI	The NIAID Division of AIDS, Science, Vaccine Concepts/Designs, Naked DNA Vaccines - Internet website: http://www.niaid.nih.gov (printed Aug. 16, 1999)
	EJ	The NIAID Division of AIDS, Science, Vaccine Designs/Concepts - Internet website: http://www.niaid.nih.gov (printed Aug. 16, 1999)

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	EK	International AIDS Vaccine Initiative, IAVI Report – July – September 1998, HIV DNA Vaccines Move Slowly Into Human Trials – Internet website: http://www.http://www.iavi.org Vaccine Initiative, IAVI Report – July-August 1999, A Newsletter on International Aids Vaccine Research – Internet website: http://www.iavi.org (printed Aug. 16, 1999)
	EL	International AIDS Vaccine Initiative – Scientific Areas of Emphasis – Internet website: http://www.iavi.org (printed Aug. 16, 1999)

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